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TITLE:

Input-output power calculating device for nickel hydrogen battery, corrects opening voltage at which no current flows through battery and extracts corresponding input-output characteristics from memory

PATENT-ASSIGNEE: NISSAN MOTOR CO LTD [NSMO]

PRIORITY-DATA: 1998JP-0198695 (July 14, 1998)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000030748 A	January 28, 2000	N/A	012	H01M 010/42

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
JP2000030748A	N/A	1998JP-0198695	July 14, 1998

INT-CL (IPC): H01M010/42, H02J007/00

ABSTRACTED-PUB-NO: JP2000030748A

BASIC-ABSTRACT:

NOVELTY - A calculation unit searches I/O value corresponding to particular terminal voltage of battery, when there is no charging-discharging current to or from the battery. When current flows, an opening voltage at which there is no current flow, is determined and the variation rate is corrected and the I/O characteristics corresponding to the corrected opening voltage is extracted from memory. DETAILED DESCRIPTION - Input-output characteristics of a battery, corresponding to different opening voltages, and a variation rate of opening voltage opposing to the charging-discharging current

are stored in a memory, beforehand. A voltmeter and ammeter respectively measure terminal voltage and charging-discharging current of the battery. An integrator integrates the charging-discharging current. A calculating unit computes I/O of the battery based on I/O characteristics, variation rate, terminal voltage and charging-discharging current.

USE - For I/O characteristics calculation of nickel hydrogen battery.

ADVANTAGE - The I/O electric power of the battery whose opening voltage changes with charging-discharging logs is calculated correctly.

CHOSSEN-DRAWING: Dwg.1/13

DERWENT-CLASS: X16

EPI-CODES: X16-B09; X16-G;